1 APPLICATION 3
2 DESCRIPTION (FIG. 1-2) 3
3 PACKAGE CONTENT LIST 3
4 SYMBOLS 4
5 GENERAL POWER TOOL SAFETY WARNINGS 4
5.1 Working area *4*
5.2 Electrical safety *4*
5.3 Personal safety *5*
5.4 Power tool use and care *5*
5.5 Service *5*
6 ADDITIONAL SAFETY INSTRUCTIONS 5
7 ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS 6
8 FEATURES 6
8.1 Keyless chuck (12) *6*
8.2 Torque adjustment ring (11) *6*
8.3 Forward/reverse selector (right/left rotation selector) (3) *7*
8.4 Variable speed *7*
8.5 Speed selector (2) *7*
9 (PRE)OPERATION 7
9.1 Charging the battery pack *7*
9.2 Charging indication: (Fig. 3) *7*
9.3 Install/remove battery pack (Fig. 4) *8*
9.4 Switch (Fig. 5) *8*
9.4.1 Switch lock 8
9.4.2 Direction of rotation 8
9.4.3 Variable speed 8
9.5 Installing/removing bits (Fig. 7) *8*
9.6 Adjusting the torque (Fig. 8) *9*
9.7 Setting the impact drilling mode (Fig. 8) *9*
9.8 Speed selector (Fig. 9) *9*

Copyright © 2011 VARO

9.9 LED light (Fig. 10) 9
9.10 Magnetic plate (Fig. 11) 9
9.11 Auxiliary handle subassembly (Fig. 12) 10
9.12 Depth Gauge (1) 10
10 DRILLING 10
10.1 Wood drilling 10
10.2 Metal drilling 10
10.3 Masonry drilling 10
11 CLEANING AND MAINTENANCE 11
11.1 Cleaning 11
11.2 Maintenance 11
11.3 Connecting cable and mains plug 11
12 STORAGE 11
13 TECHNICAL DETAILS 11
14 SOUND EMISSION 12
15 WARRANTY 12
16 ENVIRONMENT 13
16.1 Battery pack 13
17 DECLARATION OF CONFORMITY 13

Copyright © 2011 VARO

CORDLESS HAMMER DRILL 18V LI-ION POWXQ5250

1 APPLICATION

The power tool is intended for driving and drilling through wood, metal, plastics and masonry. It is not designed for commercial use.

WARNING! For your own safety, read this manual and general safety instructions carefully before using the appliance. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. 1-2)

1. Depth gauge
2. Speed selector switch knob
3. Forward / reverse knob
4. ON/OFF switch trigger
5. Battery pack release button
6. Battery pack
7. Buckle
8. Auxiliary handle
9. Magnetic plate
10. LED work light
11. Torque adjustment ring
12. Keyless chuck with lock

3 PACKAGE CONTENT LIST

- Remove all packaging materials.
- Remove remaining packing and package inserts (if included).
- Check that the package contents are complete.
- Check the appliance, the power cord, the power plug and all accessories for transportation damage.
- Keep the packing materials as long as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING: Packaging materials are not toys! Children must not play with plastic bags! Danger of suffocation!

1pc machine
1pc charger
2pcs batteries
1pc manual
1pc XQ catalog

If any parts are missing or damaged, please contact your dealer.

Copyright © 2011 VARO

4 SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury or damage to the tool.		Only use indoors.
	Read manual before use.		Do not expose charger and battery pack to water.
	In accordance with essential requirements of the European directive(s)		Do not incinerate battery pack.
	Class II - The machine is double insulated; earthing wire is therefore not necessary.		

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to heed warnings and follow instructions may result in electric shock, fire and/or serious injury. Keep safety warnings and instructions for future reference. The term "power tool" in the safety warnings refers to your mains-operated (corded) power tool or battery- operated (cordless) power tool.

5.1 Working area

- Keep working area clean and well lit. Untidy and dark areas can lead to accidents.
- Do not operate power tools in potentially explosive surroundings, for example, in the presence of inflammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders at a distance when operating a power tool. Distractions can cause you to lose control of it.

5.2 Electrical safety

- Always check that the power supply corresponds to the voltage on the rating plate.
- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed power tools. Unmodified plugs and matching outlets will reduce the risk of an electric shock.
- Avoid body contact with earthed surfaces such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of an electric shock if your body is earthed.
- Do not expose power tools to rain or wet conditions. If water gets inside a power tool, it will increase the risk of an electric shock.
- Do not damage the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of an electric shock.
- When operating a power tool outdoors, use an extension cable suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of an electric shock.
- If operating a power tool in a damp location is unavoidable, use a power supply protected by a residual current device (RCD). Using an RCD reduces the risk of an electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication. A moment of inattention when operating a power tool may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Using safety equipment such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection whenever it is needed will reduce the risk of personal injury.
- Avoid accidental starts. Ensure the switch is in the off position before inserting the plug. Carrying power tools with your finger on the switch or plugging in power tools when the switch is in the on position makes accidents more likely.
- Remove any adjusting keys or spanners before turning on the power tool. A spanner or key left attached to a rotating part of the power tool may result in personal injury.
- Do not reach out too far. Keep your feet firmly on the ground at all times. This will enable you retain control over the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from the power tool. Loose clothes, jewellery or long hair can become entangled in the moving parts.
- If there are devices for connecting dust extraction and collection facilities, please ensure that they are attached and used correctly. Using such devices can reduce dust-related hazards.

5.4 Power tool use and care

- Do not expect the power tool to do more than it can. Use the correct power tool for what you want to do. A power tool will achieve better results and be safer if used in the context for which it was designed.
- Do not use the power tool if the switch cannot turn it on and off. A power tool with a broken switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store power tools, when not in use, out of the reach of children and do not allow people who are not familiar with the power tool or these instructions to operate it. Power tools are potentially dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or jammed moving parts, breakages or any other feature that might affect the operation of the power tool. If it is damaged, the power tool must be repaired. Many accidents are caused by using poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.
- Use the power tool, accessories and cutting tools, etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work which needs to be done. Using a power tool in ways for which it was not intended can lead to potentially hazardous situations.

5.5 Service

- Your power tool should be serviced by a qualified specialist using only standard spare parts. This will ensure that it meets the required safety standards.

6 ADDITIONAL SAFETY INSTRUCTIONS

- Always wear hearing protection with impact drills. Exposure to noise can cause hearing loss
- Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

7 ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS

Batteries

1. Never attempt to open for any reason.
2. Do not store in locations where the temperature may exceed 40 °C.
3. Charge only at ambient temperatures between 10°C and 40 °C.
4. Charge only using the charger provided with the tool.
5. When disposing of batteries, follow the instructions given in the section "Protecting the environment".
6. Do not cause short circuits. If connection is made between the positive (+) and negative (-) terminal directly or via accidental contact with metallic objects, the battery is short circuited and an intense current will flow causing heat generation which may lead to casing rupture or fire.
7. Do not heat. If batteries are heated to above 100 °C, sealing and insulating separators and other polymer components may be damaged resulting in electrolyte leakage and/or internal short circuiting leading to heat generation causing rupture or file. Moreover do not dispose of the batteries in fire, explosion and/or intense burning may result.
8. Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as follows:
    - - Carefully wipe the liquid off using a cloth. Avoid skin contact.
    - - In case of skin or eye contact, follow the instructions below:
        i. Immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar.
        ii. In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.

Chargers

1. Use the charger provided with the tool only to charge the battery
2. Never attempt to charge non-rechargeable batteries.
3. Have defective cords replaced immediately.
4. Do not expose to water.
5. Do not open the charger.
6. Do not probe the charger.
7. The charger is intended for indoor use only.

8 FEATURES

8.1 Keyless chuck (12)

Your drill has a keyless chuck that allows you to hand tighten or release drill bit in the chuck jaws.

8.2 Torque adjustment ring (11)

The drill has a torque adjustment ring. It allows you to select the desired torque depending on the task you have to perform (drill / different types of screws into different materials). The proper setting depends on the type of material and the size of screw you are using.

8.3 Forward/reverse selector (right/left rotation selector) (3)

The drill has a forward/reverse selector located above the switch trigger.

- Press selector F(orward)/R(everse) on left side of machine (to the right side): drill turns left (reverse/loosen screws)
- Press selector F(orward)/R(everse) on right side (to the left side): drill turns right (forward/fasten screws).

CAUTION: To prevent damage to the gearbox, always allow the chuck to come to a complete stop before changing the direction of rotation or selecting another speed (HI-LO). To stop, release the trigger switch.

8.4 Variable speed

Your cordless drill has a variable speed switch. The rotational speed and torque will in-/ decrease equivalently to applied trigger pressure. This drill has an electric brake, when the trigger switch is released, the chuck stops turning.

8.5 Speed selector (2)

Your cordless drill has a two-speed gear, designed for drilling or driving at **LO (Low)** or **HI (High)** speed. A slide switch is located on top of your drill to select either **LO (Low)** or **HI (High)** speed.

9 (PRE)OPERATION

WARNING: Do not allow familiarity with the drill make you careless. One careless fraction of a second is sufficient to inflict severe injury.

9.1 Charging the battery pack

The battery pack for this tool is supplied in a low charge condition to prevent possible problems, therefore, you have to charge the battery before first use.

Note: The battery will not reach full charge after the first charge. Allow several cycles (drilling followed by recharging) for them to become fully charged.

TO CHARGE

The battery should only be used indoors.

The battery pack will become slightly warm to the touch while charging, this is normal and does not indicate a problem.

Do not place the charger in an area of extreme heat or cold, it will work best at normal room temperature.

When the battery becomes fully charged, unplug your charger from the power supply and remove the battery pack from the charger.

For battery pack the charging time after normal use is about 1 hour to be fully charged.

9.2 Charging indication: (Fig. 3)

The charger (13) has two LED lights (green (14) and red (15)).

The green light is a power indicator, when the charger is plugged in, the green one lights.

Push the battery pack (6) to make sure contacts on battery pack engage properly with contacts in charger.

When properly connected, the green and red light is all light that means the battery is charging.

When the battery is loaded, the green light keeps illumining and the red one is blinked until the charger is disconnected from mains power.

NOTE: If both the green and red light of the charger are blinking simultaneously, the charger or the battery is defective.

Copyright © 2011 VARO

9.3 Install/remove battery pack (Fig. 4)

WARNING: Before making any adjustments ensure the drill is switched off with the reversing switch in the centre position.

Hold the drill with one hand and the battery pack (6) with the other.
To install: pull and slide battery pack (6) into battery port, make sure the latch on the back side of the battery snap into place and battery is secure before beginning operation.
To remove: use your thumb and fingers, press the battery release latch in and pull the battery pack off at the same time.

9.4 Switch (Fig. 5)

The drill is started and stopped by depressing and releasing the switch trigger.
Release the switch trigger to turn the drill OFF, in short time because of electric brake.

9.4.1 Switch lock

The switch trigger can be locked in the OFF position (Fig. 6).
This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation selector in the center position.

9.4.2 Direction of rotation

The direction of rotation is controlled by the direction of rotation selector located above the switch trigger.
With the drill held in normal operating position, the direction of rotation selector should be positioned to the left of the switch for drilling. The rotation direction is reversed when the selector is to the right of the switch. When the selector is in the center position, the switch trigger is locked (Fig. 6).

9.4.3 Variable speed

This tool has a variable speed switch that delivers higher speed and torque with increased trigger pressure.
Speed is controlled by the amount of switch trigger depression.

9.5 Installing/removing bits (Fig. 7)

This drill has a keyless chuck with lock (12) to prevent the bit or drill from loosening.

- Hold the drill's handgrip tight with one hand.
- Turn chuck ring anticlockwise with the other hand until the drill chuck opening is large enough to accept the tool.
- Insert the drill or the screwdriver bit into the drill chuck.
- Turn chuck ring clockwise until the tool is clamped tightly.
- Remove the tool in the opposite way.

9.6 Adjusting the torque (Fig. 8)

The torque is adjusted by rotating the torque setting ring (11); the torque is greater when the torque setting is set on a higher position. The torque is less when the torque setting ring is set on a low position“1”denote lowest and “ ” denote highest.
Torque is set by means of a torque setting according to different screw and different material, you can adjust suitable torque, if the screw is long and material is hard, you can adjust the bigger setting.

1-5	For driving small screws
6-10	For driving screws into soft material
11-15	For driving screws into soft and hard materials
16-20	For driving screws in hard wood
21-24	( ) For heavy drilling
	For hammer drilling

9.7 Setting the impact drilling mode (Fig. 8)

With the torque setting ring, you can select between drilling/screwdriver and impact drilling.
Impact drilling

Rotate and set the torque setting ring to the impact drilling symbol “ ”. In the “impact drilling” position, the safety clutch is deactivated and the maximum power is always effective.

9.8 Speed selector (Fig. 9)

NOTE: Mark “LOW”is Low speed position, mark “HIGH” is High speed position that are moulded onto the button of the two speed selector.

The drill has a two-speed gear (2) train designed for drilling at LOW or HIGH speed. A gear selector is located on top of the drill to select either low or high speed. When you select low speed range, the speed will decrease but will provide more power and torque. When using drill in the high speed range speed will increase but will provide less power and torque. Use low speed for high power and torque application and high speed for fast drilling applications.
Important: NEVER adjust this two speed selectorwhilst the drill is running. Always let it come to a complete stop first.

9.9 LED light (Fig. 10)

The LED worklight (10) can light prior to motor running if you press the switch lightly, which keep the work area to be lighted for checking clearly at first, and it lights also during your operation.

WARNING: Do not stare directly at the light beam. Never aim the beam at any person or an object other than the work piece.

Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person for longer than 0.25s.

9.10 Magnetic plate (Fig. 11)

On the bottom side of this drill there is a magnetic drill/bit holder. This can be used when drilling to hold various sized drill/bits to be used while completing the job.
The magnet can also hold the accessories you may need, like some screws, bits, and drills etc.

9.11 Auxiliary handle subassembly (Fig. 12)

The auxiliary handle subassembly will provide additional control, support and guidance for the drill. The handle is adjustable to any position around the 360°handle collar mount (16). Installing the auxiliary handle subassembly: Loosen the collar mount by turning the grip (17) adequately, then slide the handle over the handle collar mount on the suitable position of this tool. Finally securely tighten the grip.

NOTE: Use auxiliary handle supplied with the tool. Loss of control can cause personal injury.

9.12 Depth Gauge (1)

Your drilling depth can be pre-set and/or repeated by using the depth gauge.
Setting depth: loosen grip adequately, place the straight part of the depth gauge in the hole and slide the depth gauge to desired depth and securely tighten grip again.

10 DRILLING

Before use for drilling, the torque setting should be set on drill position " ".
When drilling hard smooth surface, use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off center as the hole is started. Hold the tool firmly and place the tip of the drill or bit into the work piece, applying only enough pressure to keep the bit cutting. Do not force or apply side pressure to elongate a hole.

10.1 Wood drilling

For maximum performance, use high speed steel bits for wood drilling. Turn the torque adjustment ring on the drill to desired torque setting. Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material. When drilling through holes, place a block of wood behind the workpiece to prevent ragged or shintered edges on the back side of the hole.

10.2 Metal drilling

For maximum performance, use high speed steel bits for metal or steel drilling. Turn the torque adjustment ring on the drill to desired torque setting. Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Maintain a speed and pressure which allows cutting without overheating the bit.
Applying too much pressure will: Overheat the drill, Wear the bearings, Bend or burn bits, Produce off-center or irregular shaped holes
When drilling large holes in metal, it is recommended that you drill with a small bit at first, then finish with a large bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

10.3 Masonry drilling

For maximum performance use carbide-tipped masonry impact bits when drilling holes in brick, tile etc. Rotate the torque selector to impact position. Apply light pressure and medium speed for best results in brick. When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure.

11 CLEANING AND MAINTENANCE

11.1 Cleaning

- Keep the ventilation slots of the tool clean to prevent overheating of the engine.
- Regularly clean the tool housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.
- Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

11.2 Maintenance

- Our tools have been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

11.3 Connecting cable and mains plug

If the connecting cable (or mains plug) is damaged, it must be replaced. Replacement of the connecting cable should only be carried out by a qualified specialist (qualified electrician).

12 STORAGE

- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.

Battery storage

- Store and charge your batteries in cool area. Temperatures below 10 °C (50 °F) or above 38 °C (100 °F) will shorten battery life.
- Never store batteries in discharged condition. Recharge them immediately after they are discharged.
- Batteries gradually lose their charge, the higher the temperature the quicker, so If you store your tool for longer periods of time without using it, recharge the batteries every month or two. This will prolong battery life.

13 TECHNICAL DETAILS

Model No.	POWXQ5250
Chuck	13mm
Power supply	18V DC
No Load Speed	0-470 / 0-1700min-1
Charger input	Input: 220-240VAC, 50/60Hz, 75W
Charger Rate	Output: 20V d.c., 3.0 A
Battery Pack Model	POWXQ5250B
Battery Type	Li-ion
Battery capacity	2600mAh
Gear Train	2-Speed
Clutch	25 + 2 Positions
Charger	1 hour
Torque	45 Nm (MAX.)

Copyright © 2011 VARO

14 SOUND EMISSION

Noise emission values measured according to relevant standard.

Acoustic pressure level LpA	86 dB(A)	K = 3 dB(A)
Acoustic power level LwA	97 dB(A)	K = 3 dB(A)

ATTENTION ! The sound power pressure may exceed 85 dB(A), in this case individual hearing protection must be worn.

aw (Vibration) drill	**2.43 m/s²**	**K = 1.5 m/s²**
aw (Vibration) impact drill	6.14 m/s²	K = 1.5 m/s²

15 WARRANTY

- This product is warranted for a 5-year period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws. It does not include defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- This warranty covers all material or production flaws, excluding batteries, chargers, defective parts subject to normal wear and tear such as, in particular, bearings, brushes, cables, plugs… Accessories such as drills, drill bits, saw blades etc. also do not fall under this warranty.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

16 ENVIRONMENT

Should your appliance need replacement after extended use, do not dispose of it with the household refuse, but in an environmentally safe way.
Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

16.1 Battery pack

This product contains Li-ion. To preserve natural resources, please recycle or dispose of batteries properly. Local, state or federal laws may prohibit disposal of Li-ion batteries in ordinary trash. Consult you local waste authority for information regarding available recycling and/or disposal options.

17 DECLARATION OF CONFORMITY

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,

Product:	Cordless Hammer drill 18V li-ion
Trade mark:	POWERplus
Model:	POWXQ5250

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives as they relate to European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amending directives):
- 2004/108/EC The Electromagnetic Compatibility Directive
- 2006/42/EC The Machinery Directive

European harmonized standards, and their amendments:
- EN60745-1 : 2009
- EN60745-2-1 : 2010
- EN55014-1 : 2006
- EN55014-2 : 1997

The undersigned acts on behalf of and under the power of attorney granted by the company management,

Philippe Vankerkhove
Certification Manager
17/01/11